PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference 6010244-PCT	FOR FURTHER ACTION		See Form PCT/IPEA/416							
International application No.	International filing date(da	ay/month/year)	Priority date (day/month/year)							
PCT/KR2004/003220	09 DECEMBER 20		09 DECEMBER 2003 (09.12.2003)							
International Patent Classification (IPC)		 ·								
IPC7 H04M 1/23										
Applicant										
JO, Won-Hyung										
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. This REPORT consists of a total of										
	•		leet:							
3. This report is also accompanied and (sent to the applicant and	by ANNEXES, comprising: d to the International Bureau		sheets as follows							
L 1			a amended and are the basis for this report							
and/or sheets con	taining rectifications author		(see Rule 70.16 and Section 607 of the							
Administrative Ir	•	ich this Authority con	siders contain an amendment that goes							
beyond the disclo	sure in the international app		dicated in item 4 of Box No. I and the							
Supplemental Bo b. (sent to the International	x. Al Bureau only) a total of (inc	dicate type and numbe	or of electronic carrier(s))							
containing a sequence li	sting and/or tables related the	nereto, in electronic for	rm only, as indicated in the Supplemental							
Box relating to Sequenc	e Listing (see Section 802 o	f the Administrative In	nstructions).							
4. This report contains indications re	elating to the following item									
Box No. I Basis of the	_									
Box No. II Priority										
	ishment of opinion with reg	ard to novelty, inventi	ve step and industrial applicability							
Box No. V Reasoned scitations an										
Box No. VII Certain defects in the international application										
Box No. VIII Certain observations on the international application										
Date of submission of the demand		Date of completion of this report								
21 JUNE 2005 (21.06.2005)		14 SEPTEMBER 2005 (14.09.2005)								
Name and mailing address of the IPEA	/KR	Authorized officer								
Korean Intellectual Propert 920 Dunsan-dong, Seo-gu, Republic of Korea		UHM, In Kwon	9(5)20							
Facsimile No. 82-42-472-7140		Telephone No. 82-42	2-42-481-5712							

BES! AVAILABLE COPY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003220

Box No	o. I Basis of the report
1. W	ith regard to the language, this report is based on the international application in the language in which it was filed, unless herwise indicated under this item.
	This report is based on translations from the original language into the following languageEnglish
	which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
to th	h regard to the elements of the international application, this report is based on (replacement sheets which have been furnished he receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not exed to this report):
	the international application as originally filed/furnished
	the description: pages as originally filed/furnished
•	pages* received by this Authority on
	pages* received by this Authority on
	the claims: pagesas originally filed/furnished
	pages* as amended (together with any statment) under Article 19
	pages* received by this Authority on
•	pages* received by this Authority on
	the drawings:
	pagesas originally filed/furnished
	pages* received by this Authority on
	pages* received by this Authority on
	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):
* If iten	n 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/003220

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement						
	Novelty (N)	Claims	1-18				YES
		Claims	NONE				_NO
	Inventive step (IS)	Claims	1-18	•			YES
		Claims	NONE				NO
	Industrial applicability (IA)	Claims	1-18				_YES
		Claims	NONE		-	 	_NO

2. Citations and explanations (Rule 70.7)

1. NOVELTY AND INVENTIVE STEP

Reference is made to the following documents:

D1: KR 2002-63068 A (JO WON HYUNG ET AL.) 1 August 2002

D2." JP 09-116605 A (SONY CORPORATION) 2 May 1997

D3: JP 11-220523 A (SANYO ELECTRIC CO., LTD.) 10 August 1999

D4: JP 2003-15808 A (KATO SHUNJI) 17 January 2003

The subject matter of claim 1-10 is considered to be a input apparatus including a keypad comprising consonant letters marked on each key of the keypad, and vowel letters arranged in at four directions along the sliding direction of the keypad.

D1 discloses an apparatus and an method of inputting a character using a keypad such as a joy stick and a touch screen in which a plurality of signal sensing units are installed.

D2 discloses the miniaturized telephone set wherein three operation keys have operating functions to which an entry function of numerals and symbols corresponding to four operating positions is assigned. A discrimination means discriminates any operated key among the operation keys and also discriminates a numeral and/or a symbol entered by the operation of the operation key.

D3 discloses a communication terminal including a keypad and a touch panel entry device which provides an output of a signal denoting the presence of contact to its entry plane and a moving amount and a moving direction of a part which is in contact with the input plane.

(Continued on Supplement Box)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Inte _ational application No.

PCT/KR2004/003220

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

(continuation of Box V)

D4 disclose a tough-type key input apparatus comprising a plurality of character keys having at least two characters on its surface, an input discrimination means for detecting that a character key is touched and capable of discriminating the movement direction in bar touch input to be inputted, a character selection/output means for selecting and outputting a character displayed at the movement direction side with respect to a character key reference position in accordance with the movement direction discriminated by the input discrimination means.

The prior arts do not disclose the subject matter of claims 1-10. Even though the prior arts may be combined, it is not obvious to a skilled person in a mobile communication to derive the subject matter of claims 1-10 from the prior arts.

Therefore, the subject matter of claims 1-10 is considered to have novelty and an inventive step.

The subject matter of claims 11-18 relates to manufacturing method of the subject matter of claims 1-10. Therefore, the subject matter of claims 11-18 is considered to have novelty and an inventive step.

2. INDUSTRIAL APPLICABILITY

Claims 1-18 are considered to have industrial applicability.